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#### 5.2.3 Daily Records of the Time and Motion Study for Each Collection Vehicle (First Survey)

SEE DATA BOOK (2)

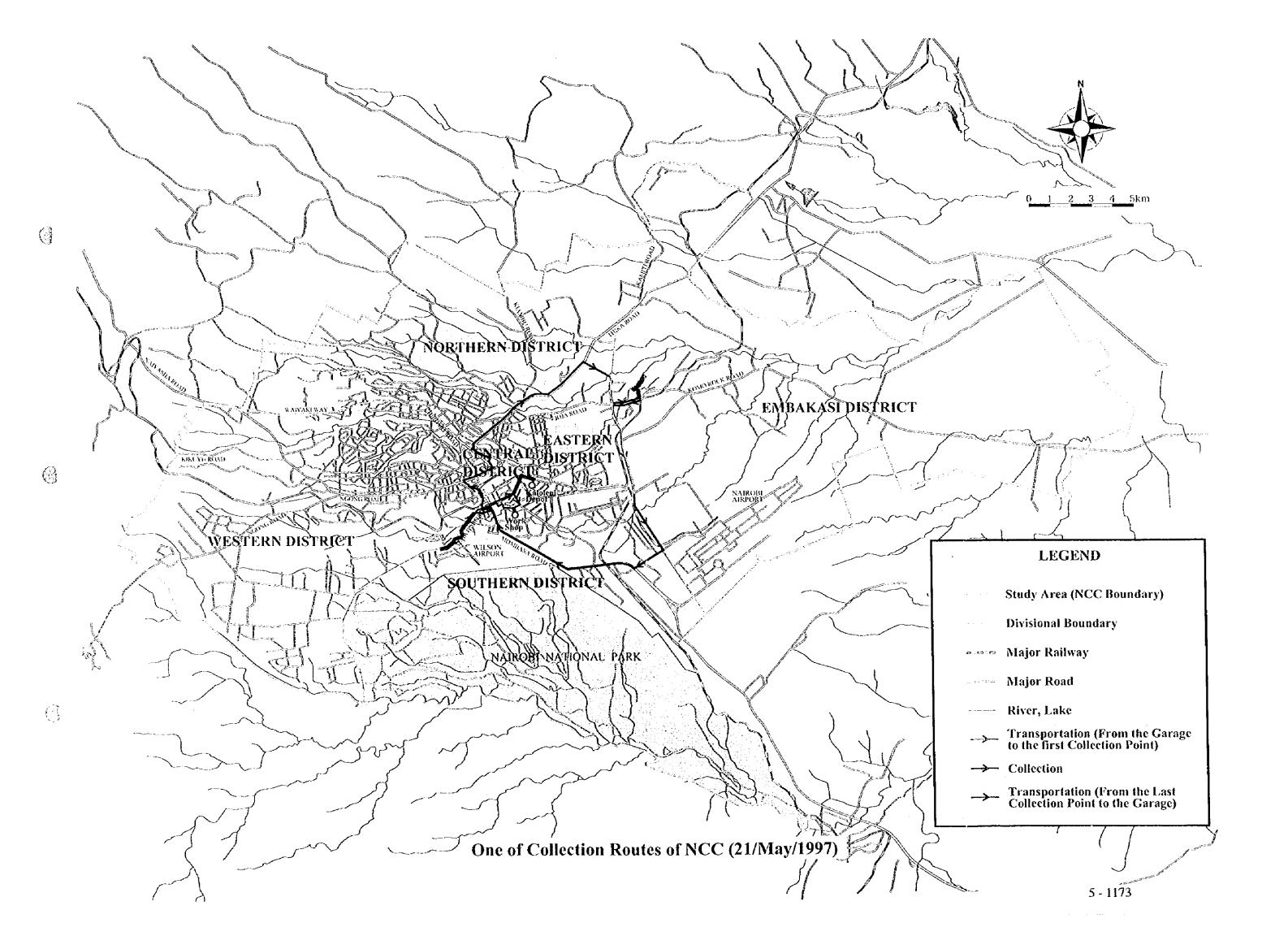
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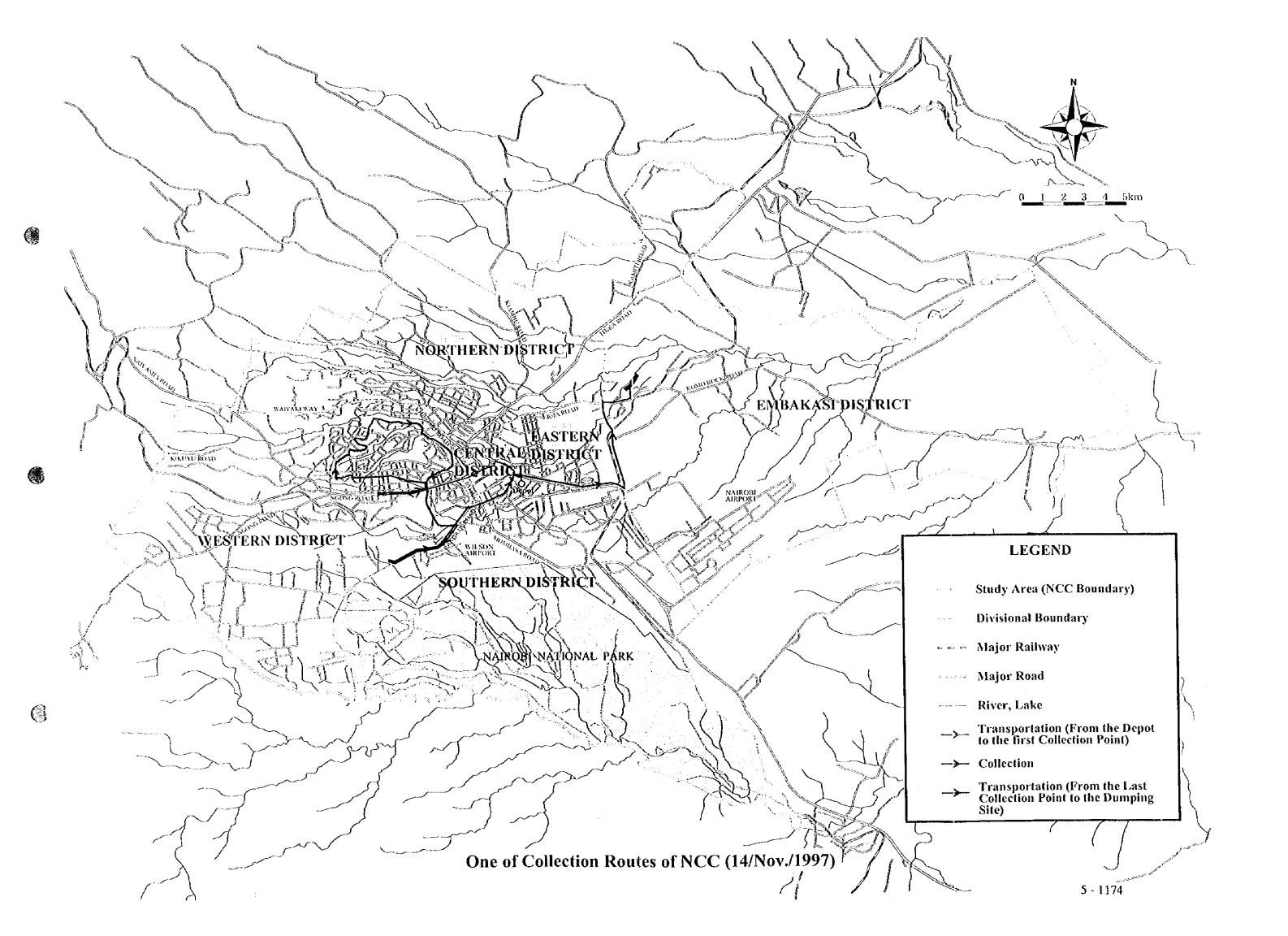
#### 5.2.4 Daily Records of the Time and Motion Study for Each Collection Vehicle (Second Survey)

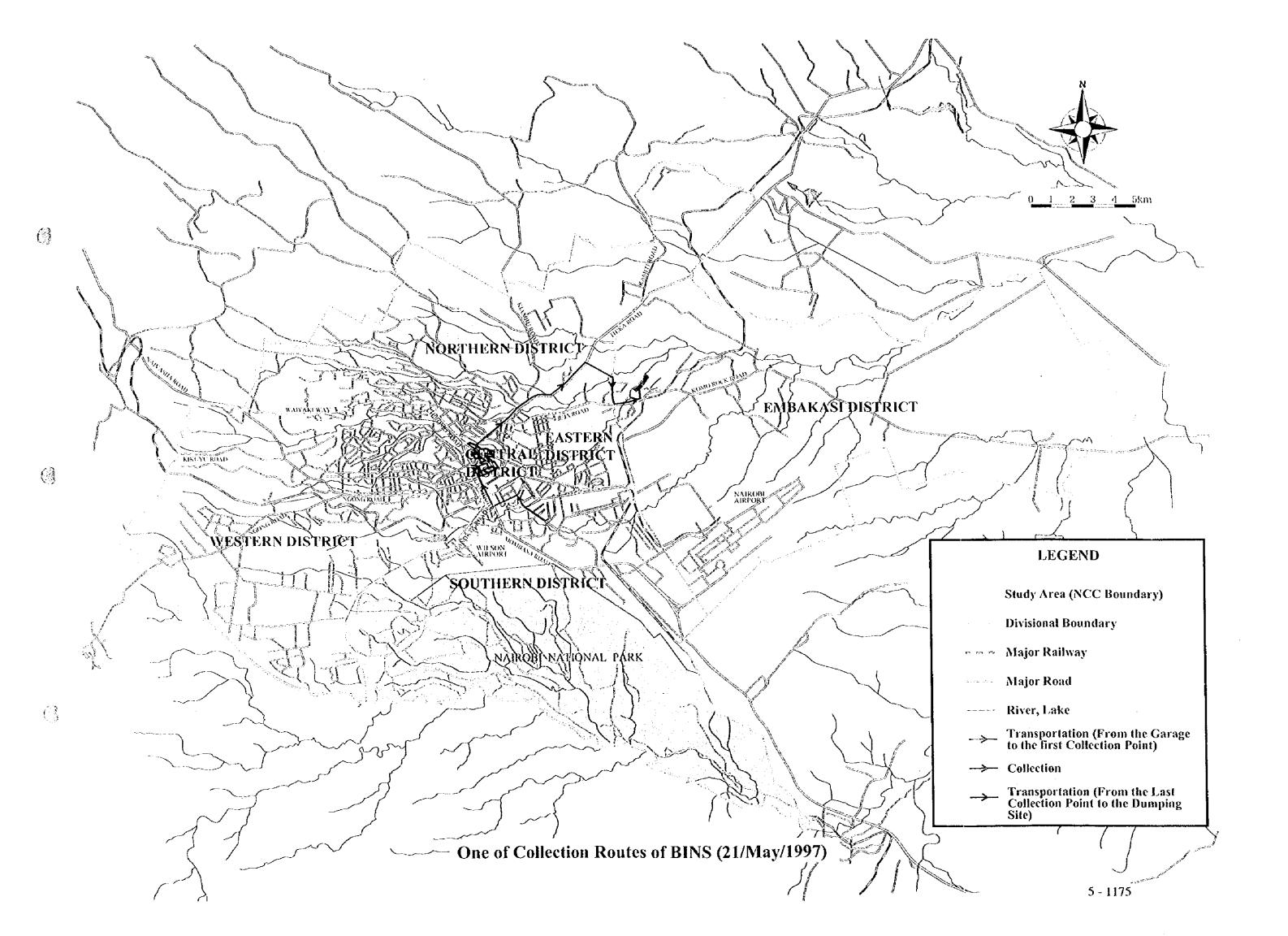
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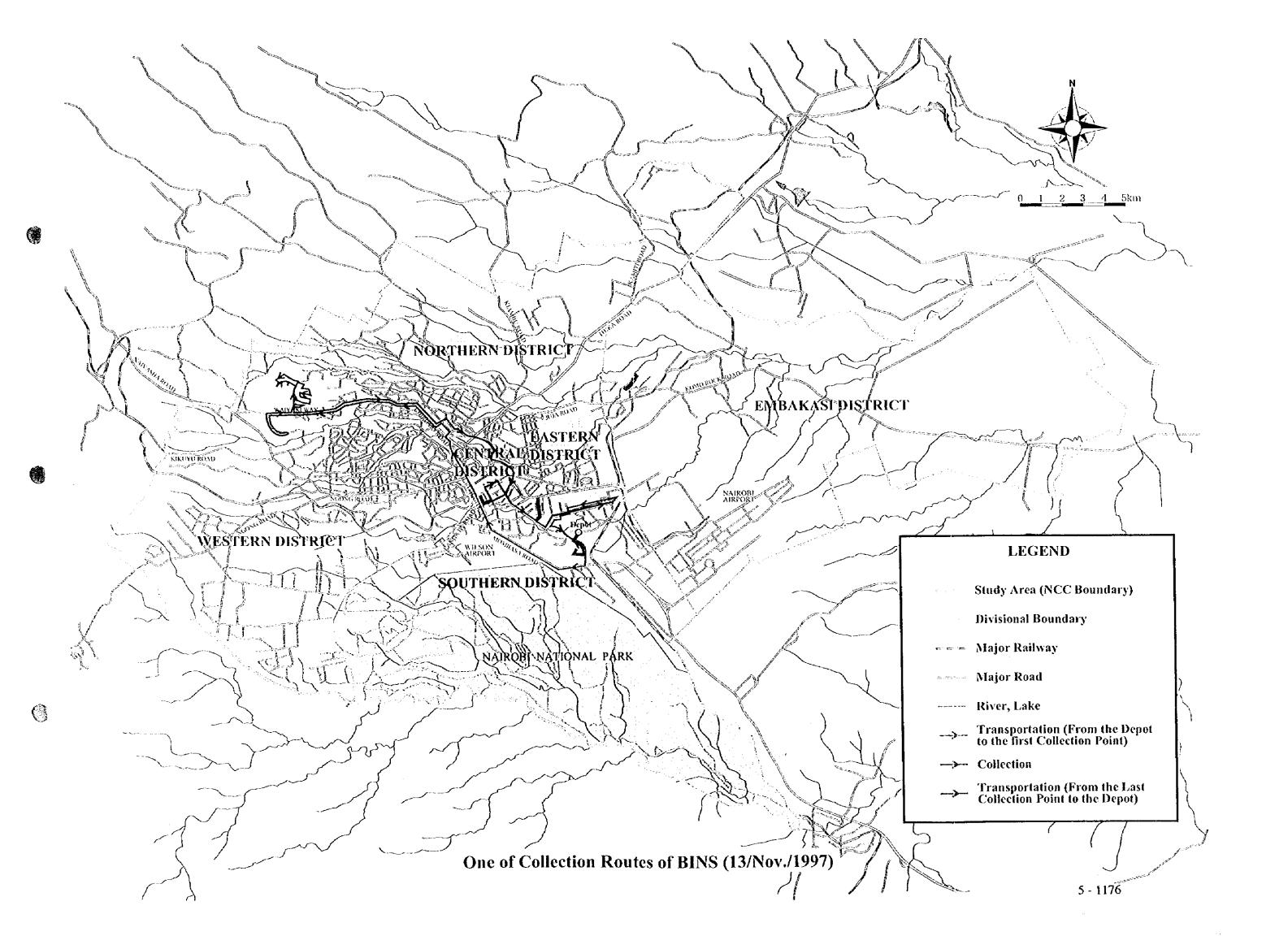
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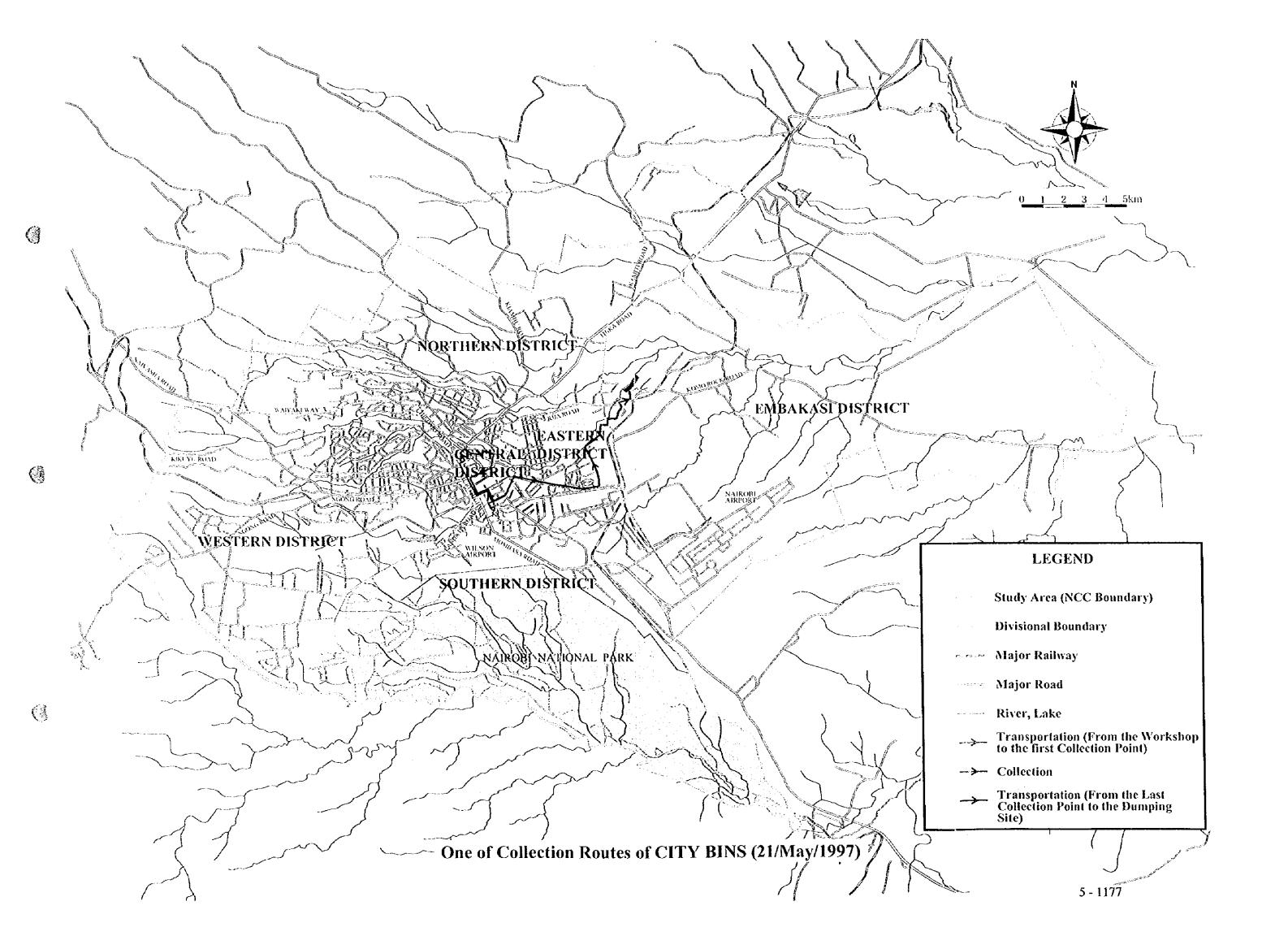
#### 5.2.5 Collection Routes of Collection Vehicles by Organisations

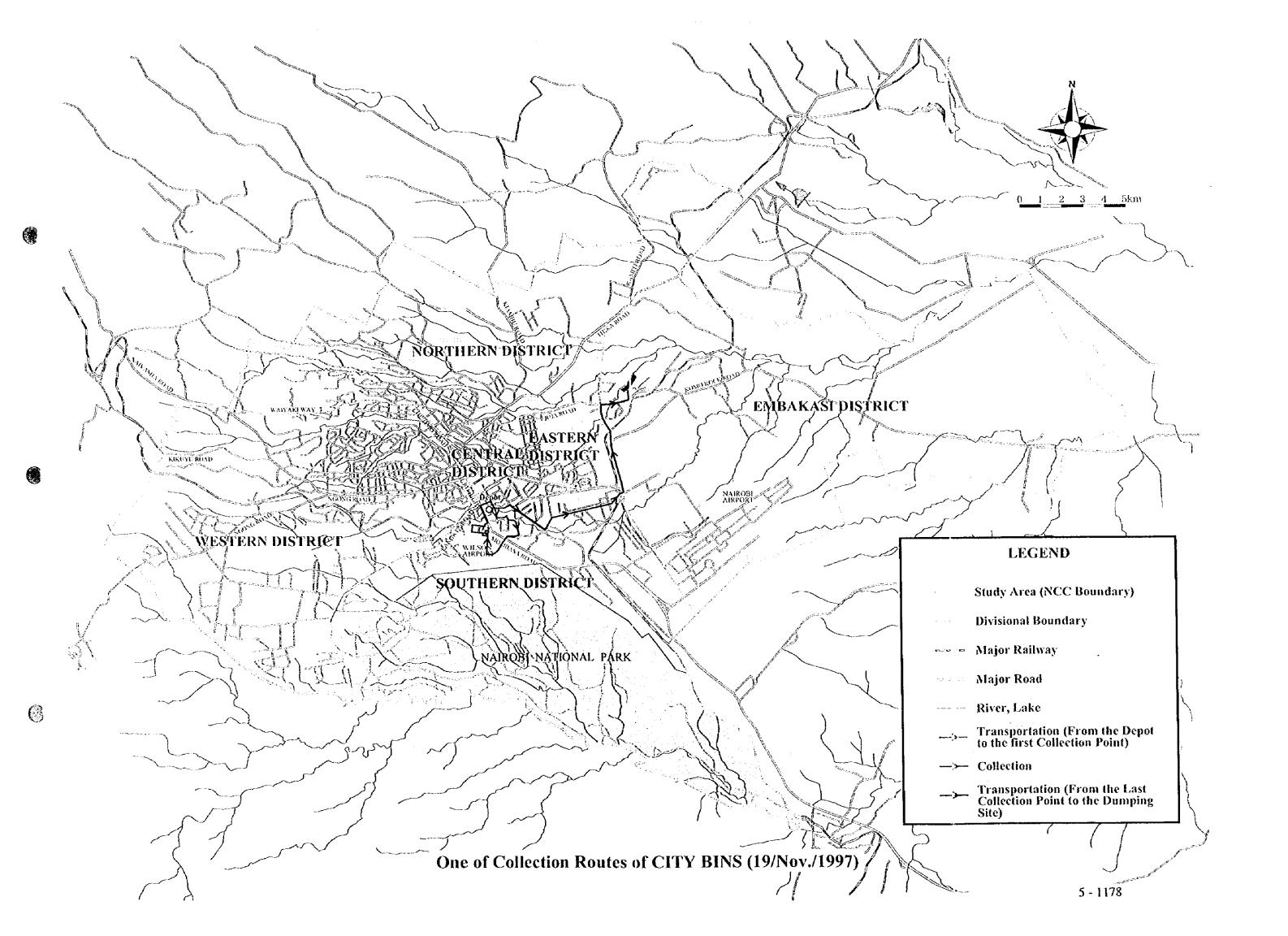


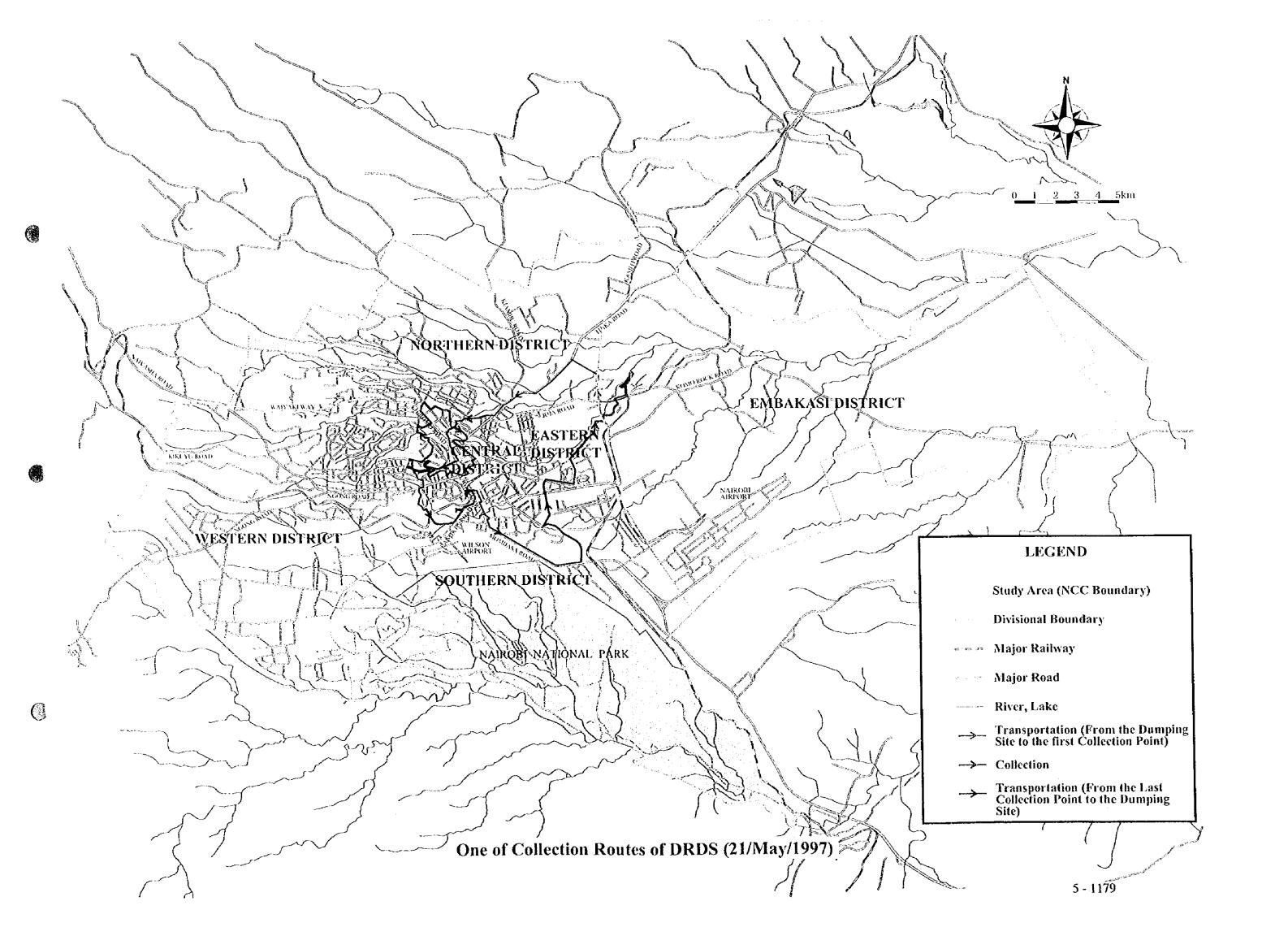


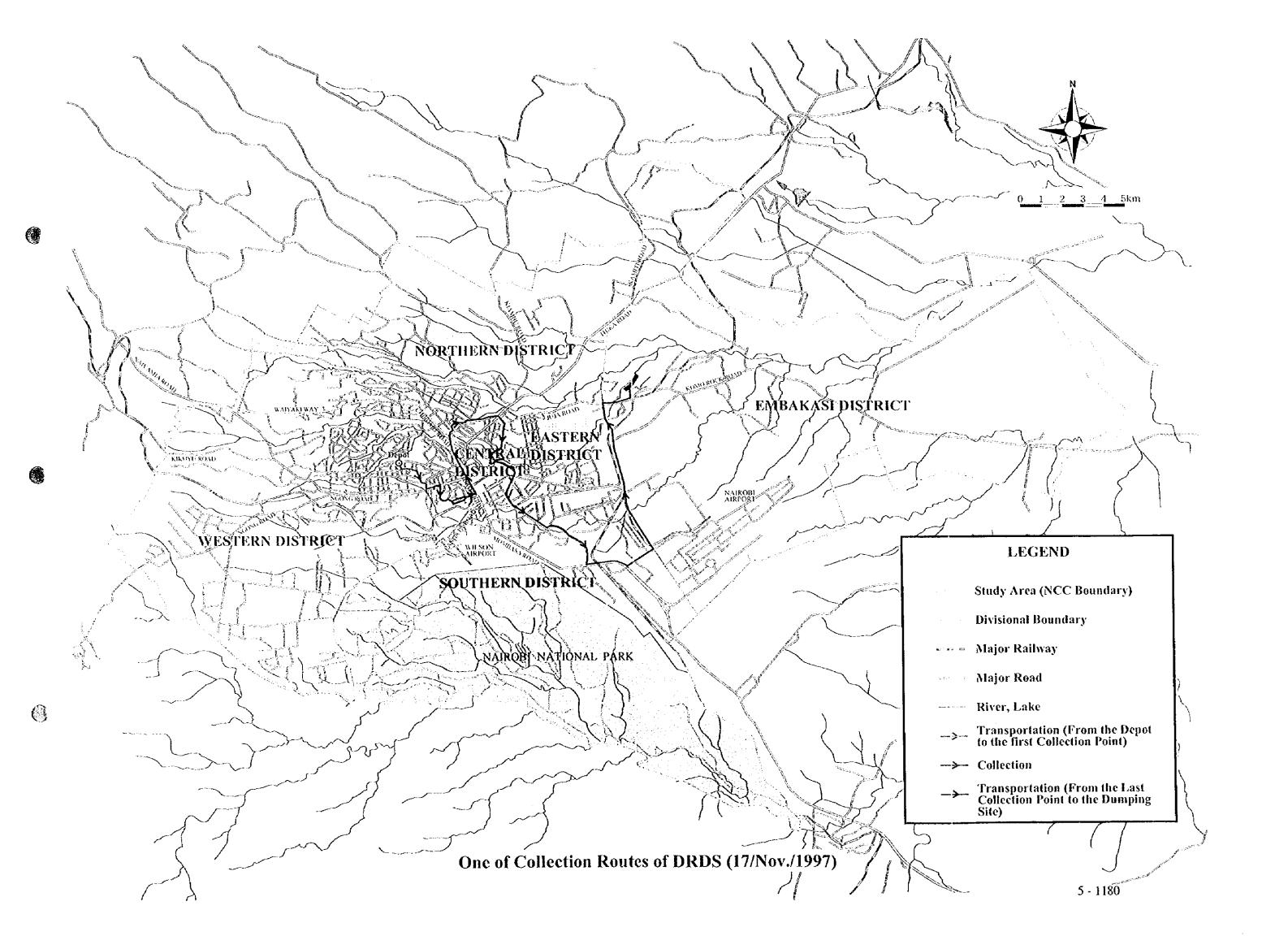


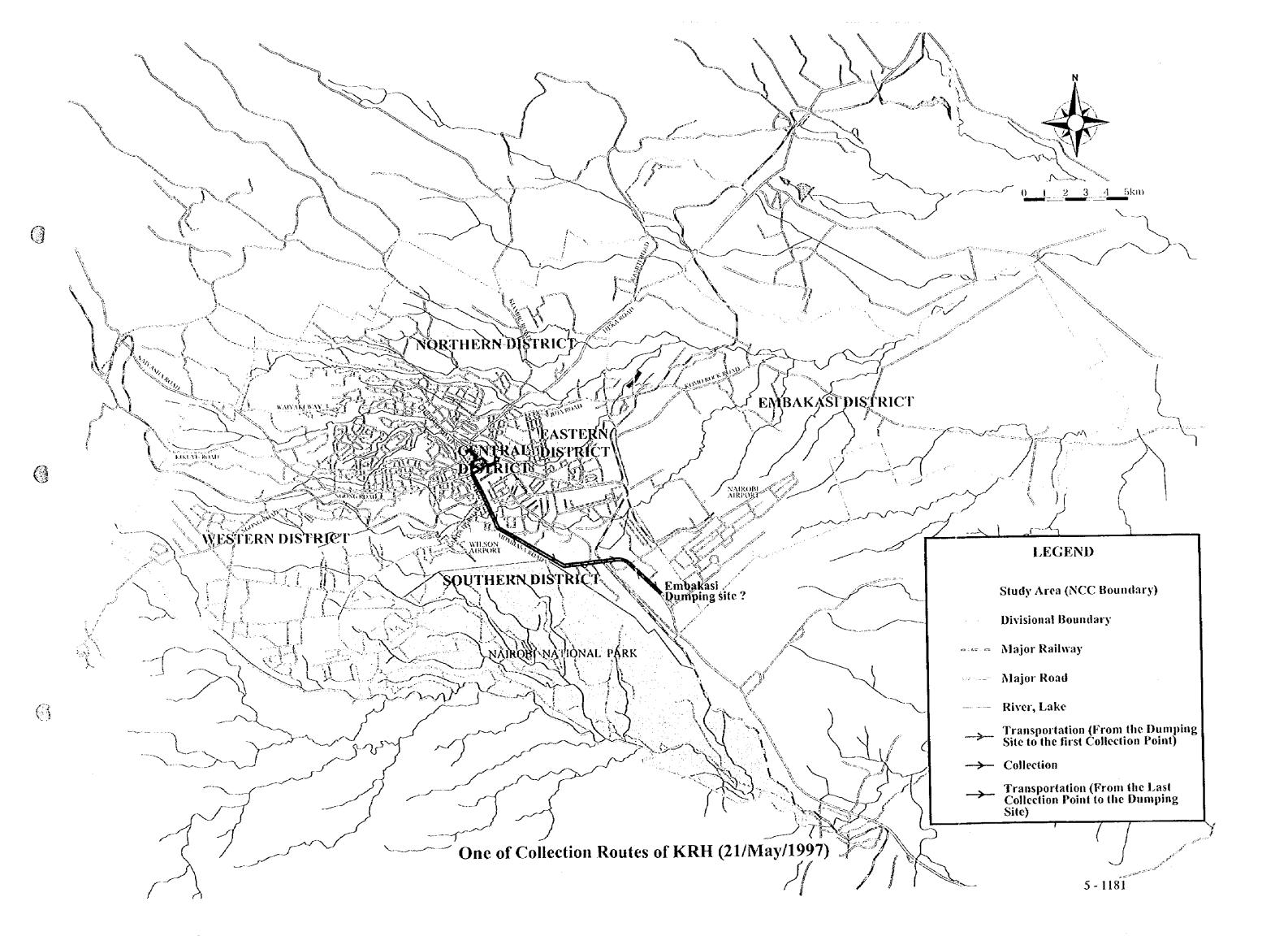


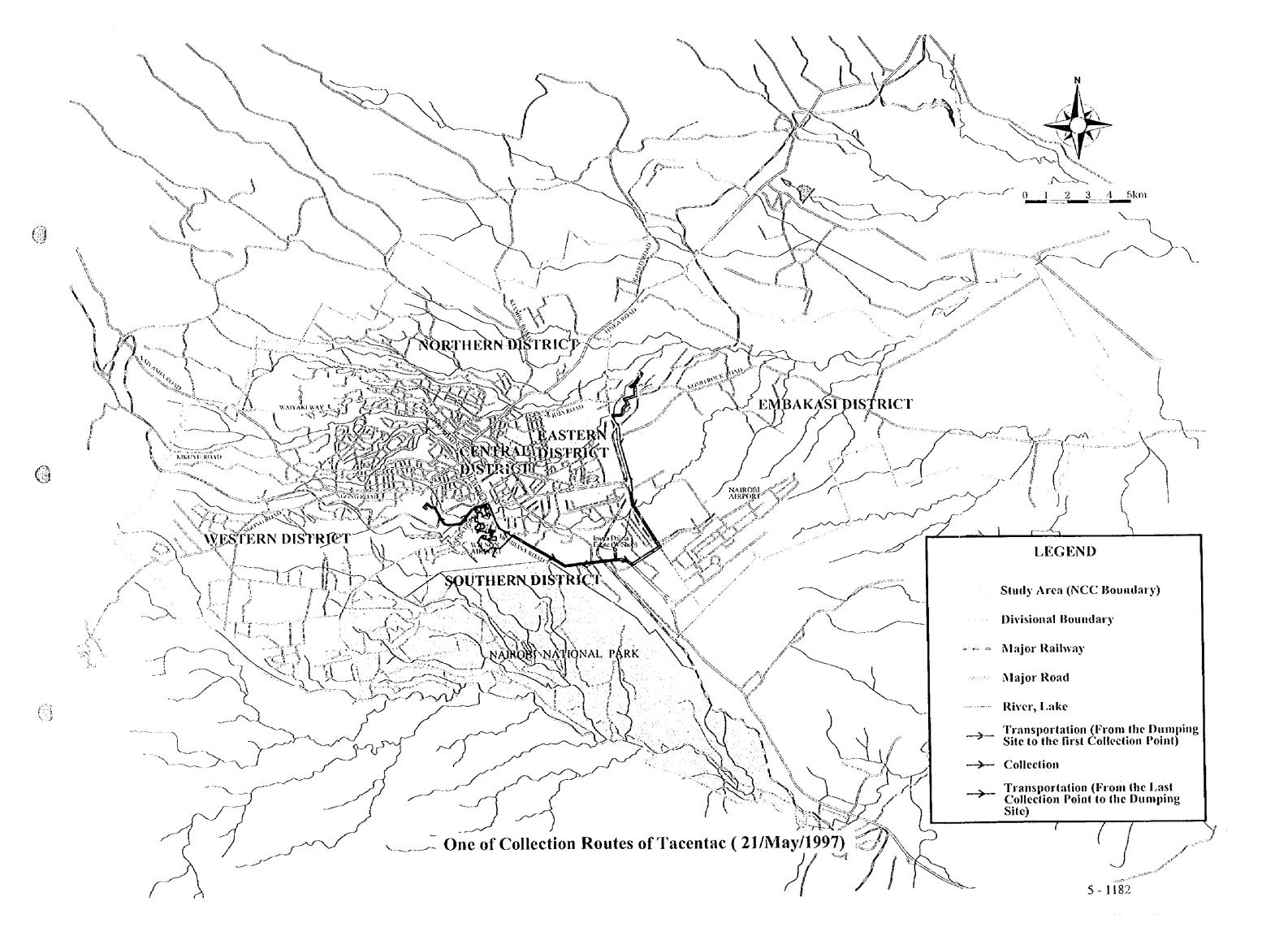


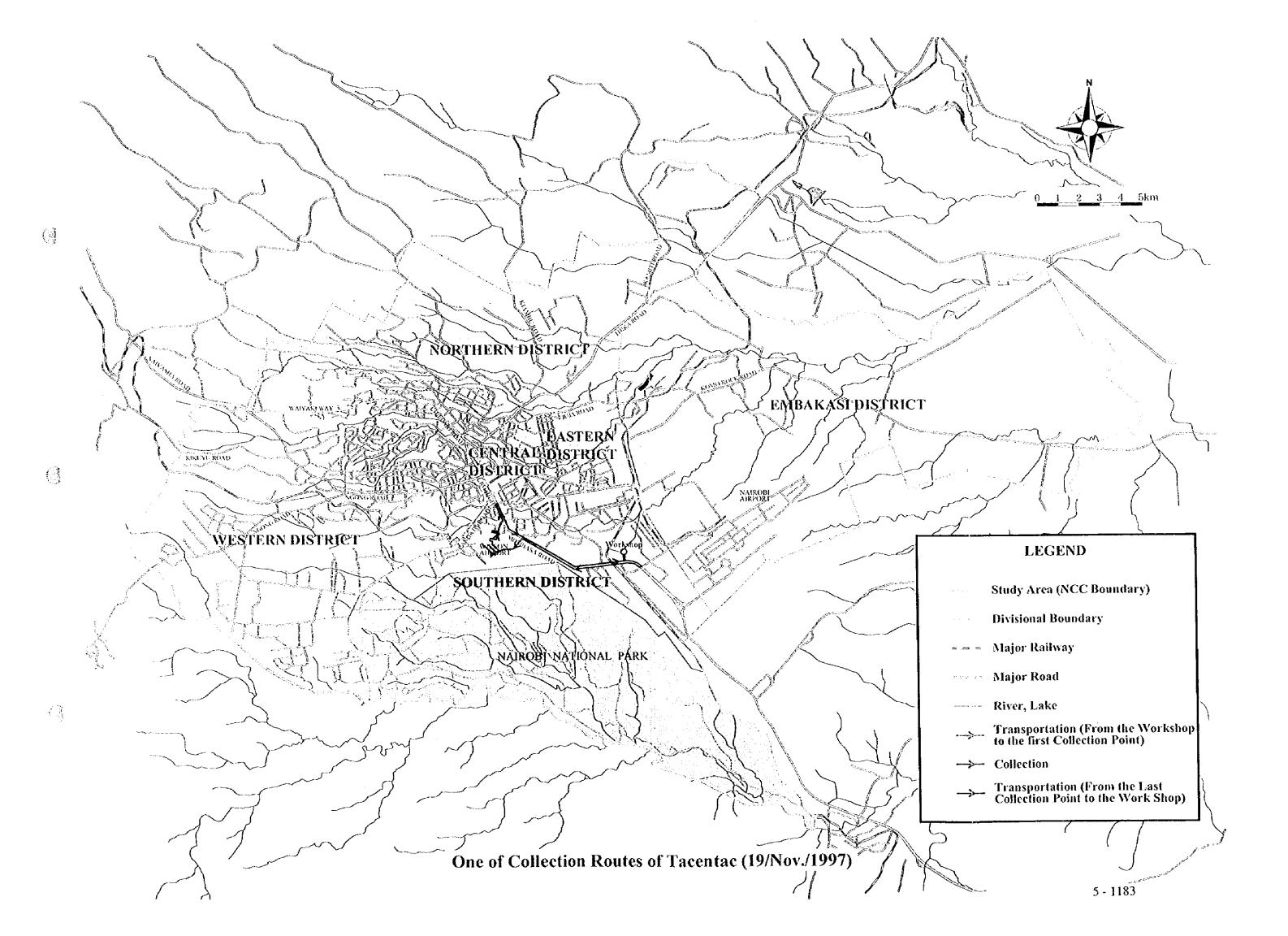


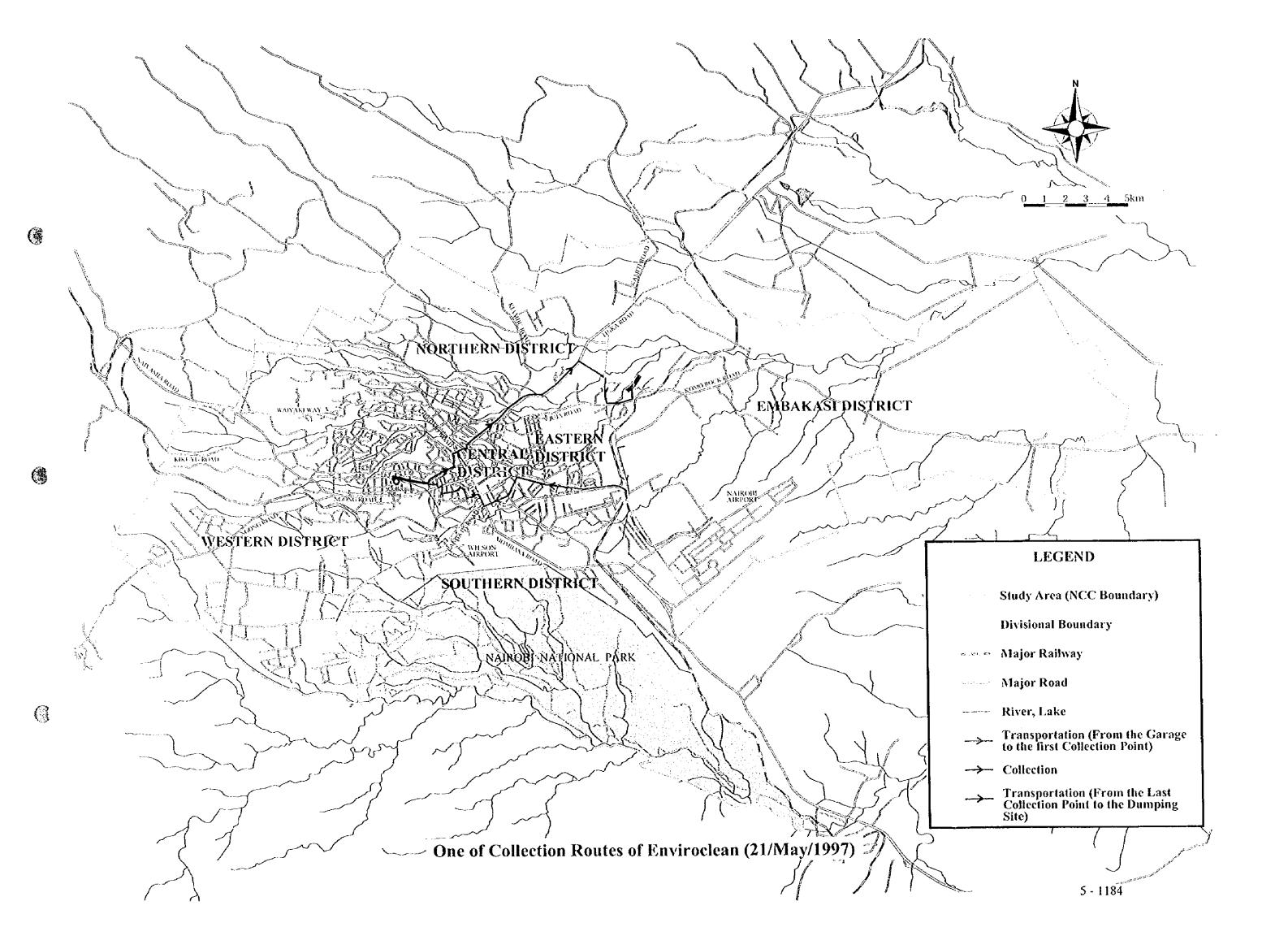


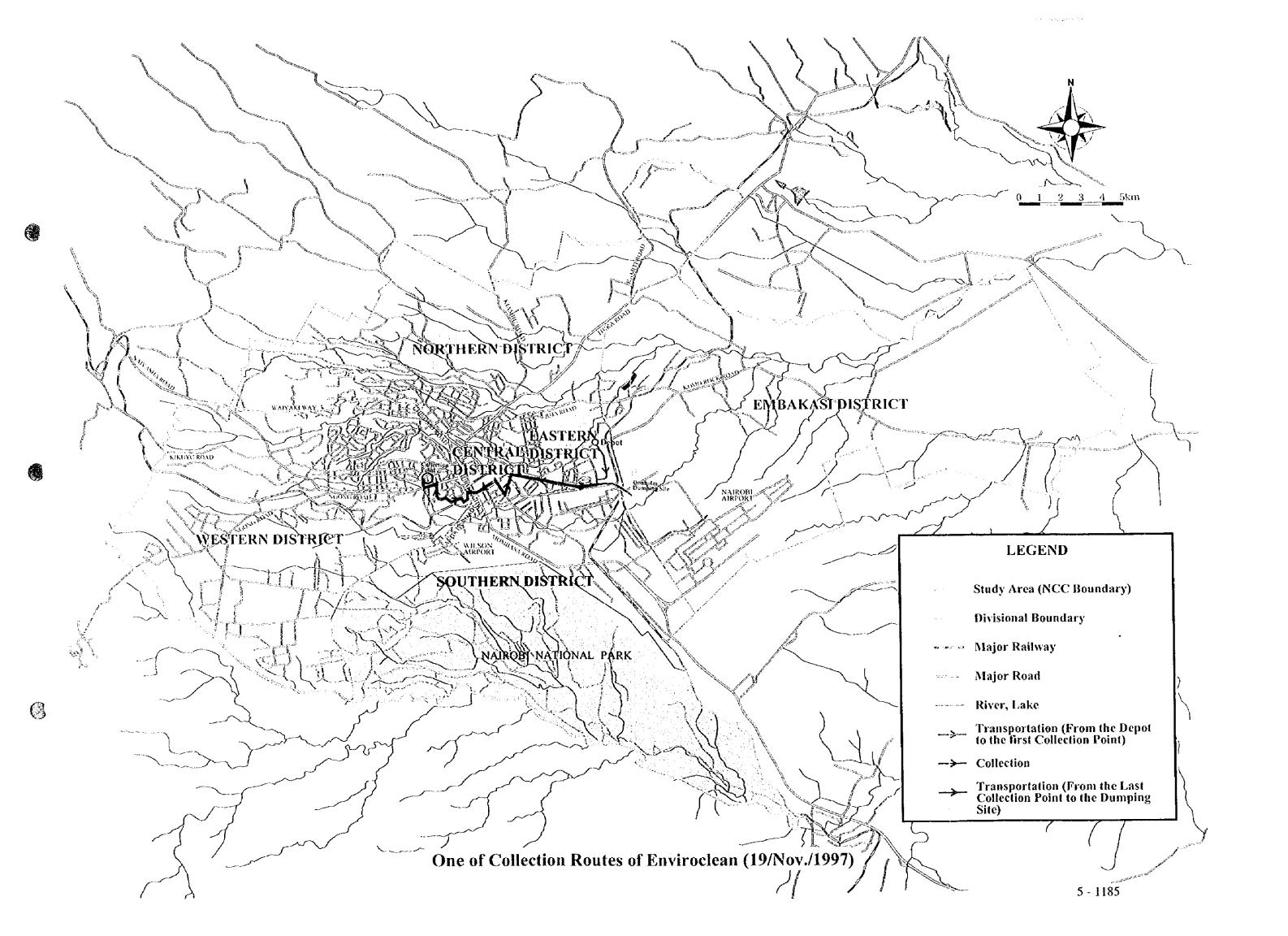


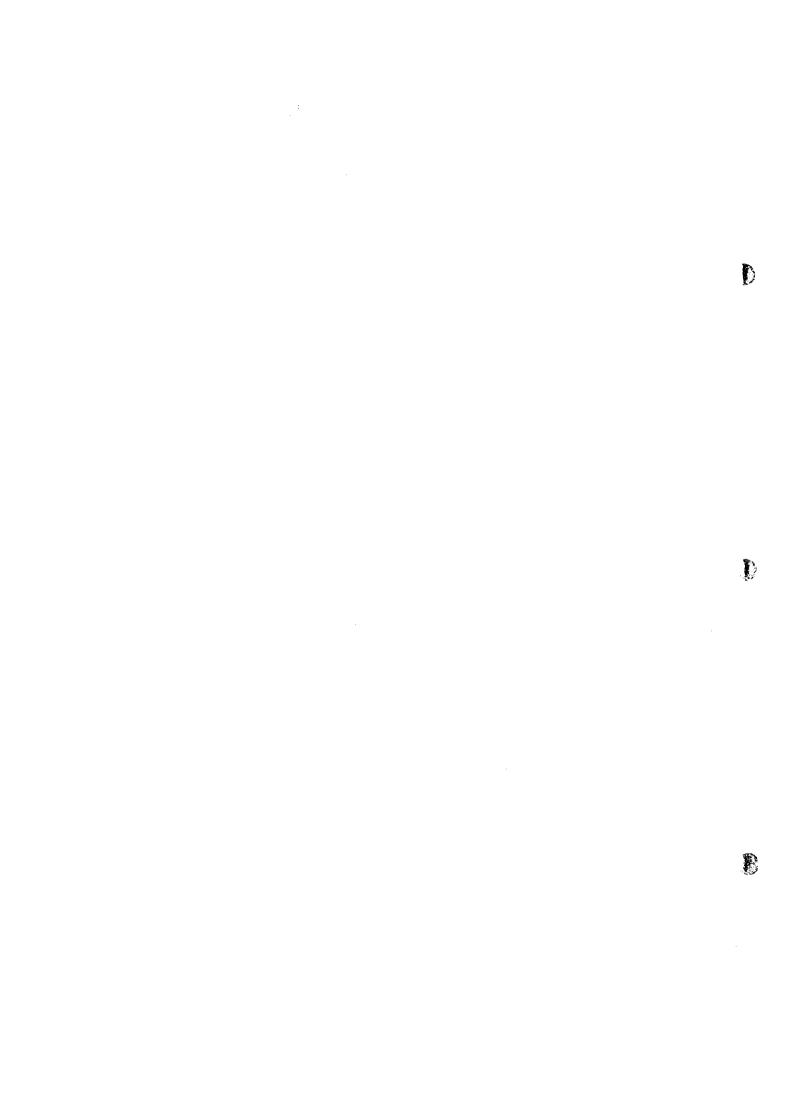












### 5.3 REVIEW OF DAILY OPERATION AND MAINTENANCE RECORDS OF NCC COLLECTION VEHICLES

#### 5.3.1 Inventory of Collection Vehicles and Plants in the Department of Environment,NCC

# INVENTORY OF CLEANSING VEHICLES AND PLANTS

FLEET NO YEAR STATE PARKED PERIOD

No FLEET NO YEAR STATE PARKED PERIOD

No FLEET NO YEAR STATEPARKED PERIOD

BC VEHICLES

(27th MAY 1997)

1

**Sweeks** 

SIDE LOADERS (NON COMPACTING)

CTING)	1vear 22weeks	1 year 9 weeks			22Weeks
SIDE LOADERS (COMPACTING)	1984	1984	1000		1985
SIDE LOA	26 FV 79	30 RV 81	St. 188-32	32 RV 93	33 RV 98
MPACTING)	1year 16weeks				

eeks         BC 11         1986         15weeks           52 BC 12         1986         15weeks           6eks         53 BC 14         1989 Good           6eks         66 BC 14         1989 Good
---

52week	AS Tames 15week
1985	HIGH RATIO COMPACTORS R0 24 1989 RC 25 1983
31 FV 82 32 FV 97 33 RV 98	HIGH RATI 34 RO 24 35 RC 25

36 RC 26

**Sweeks** 

989 Good

989 Good

6 RV 13

686 6861

**RV 17** 

10 RV 18

9 RV 16

989 Good 989 Good

989 Good 989 Good

3 RV 10

R\ 8 RV 9

Ŷ.

989 Good

	1973	1985	1991	1972	1989	1996	1996	1	SION VE
PLANTS	55 B 4	56 B 5	57 B 6	58 TS 7	59 WL 3	8 JW 09	61 WL 9		SUPERVISION VEI
	55	26	57	58	8	9	9		
			:	*****		<b>N</b>		, — ,	
School Streets	15weeks	weeks				Ayeset 24steeks			9weeks
					1002 2001		993 Good	1993 Good	
2000	1083	1000			1002	200	1993	1993	1993

7weeks

87,09178

RC 27

1989 3vear 46weeks

RV 19

989 Good

6861

1989 Good

Good

Bood

Good

2years 2years 3years 3years

		44weeks			4years 11weeks	:
SUPERVISION VEHICLES	1989 Good	1989	1989 Good	1989 Good	1985	SHIC
SUPERVISIC	62 PH 694	53 PH 695	64 PH 696	65 PH 697	S6[71.602	SHIDE GYOLES
	9	Ιœ	<u> </u>			. :

993 Good

1993

Tg

						_		
18weeks	25weeks	Ayeare Libraria						
			Good	Good	Good	Good	Good	
1988	1988	1,088	1997	1997	1997	1997	1997	
43 PH 679	089 Hd	PH 665	T 77	7 78	T 79	⊤ 80	<b>⊤81</b>	
43	44	S	46	47	48	49	က္သ	
					-			

**TIPPERS** 

23weeks

8weeks

29weeks

42 RC 33

4years 44weeks

989 Good

686

989 Good

989

**RV 30** 

RV 31

2

41 RC 32

40 RC 31

1989

15 RV 24

6 RV 25

1997 Good	7 do not exist 42: counted
81	·.

20weeks

lyear

989

27 RV 37

989 Good

989 Good

686

989 Good

686

R< 33

22 RV 32

6861

Oweeks

11weeks

6: never come out of the Workshop

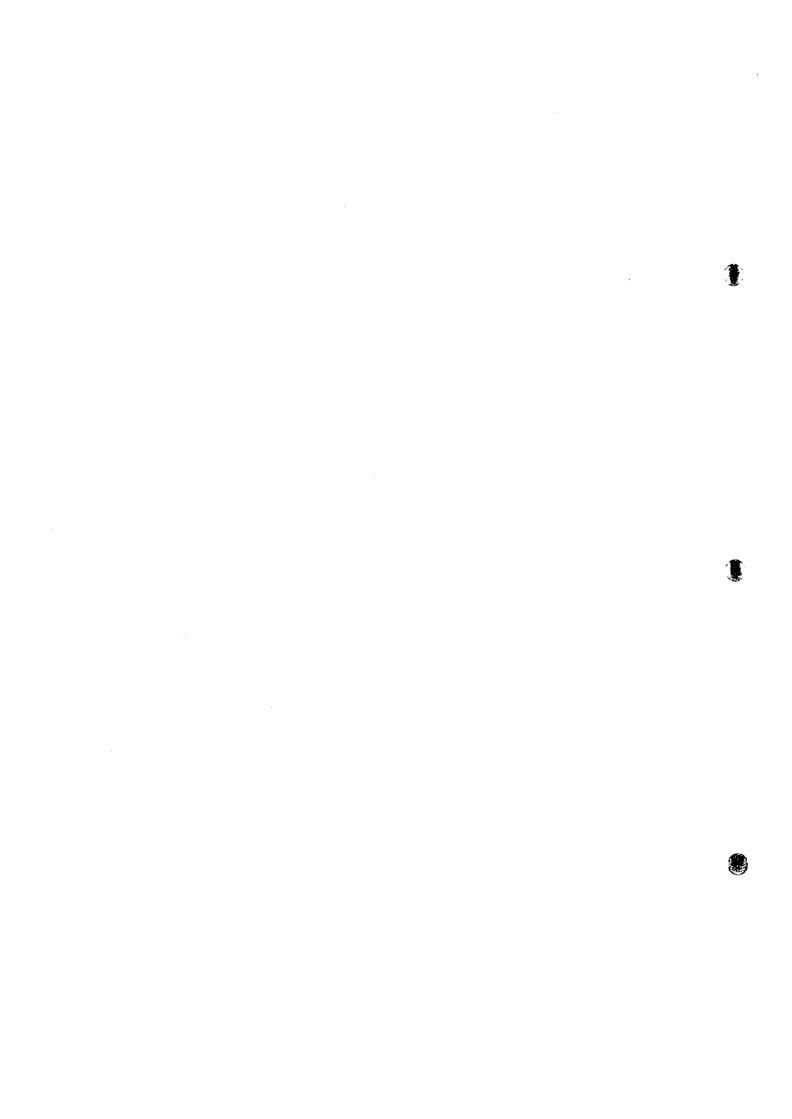
36: working somehow

**RV 22** 14 RV 23

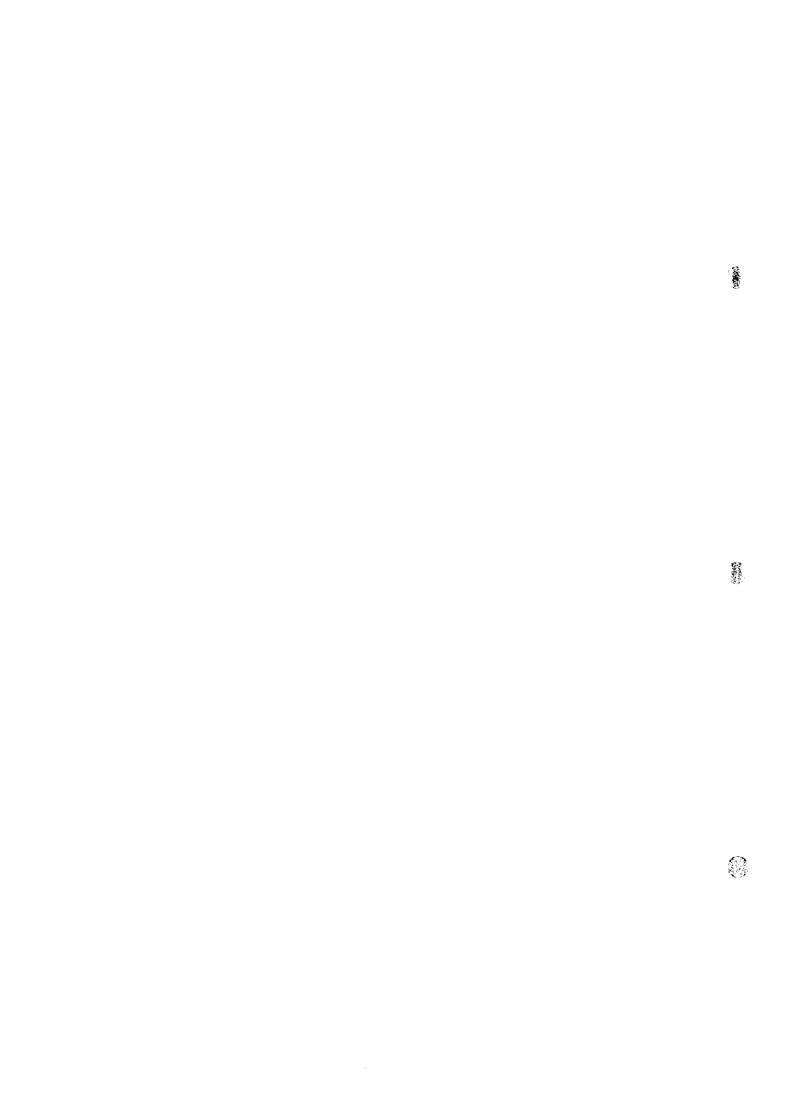
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(27th MAY 1997)	No FELETING YEAR I STATE PARKED PERCOD	60 VEHIOLES   51 BO 9		52/30/12   1986    DWerky			PLANIS	(973)	(05/3) 5 (385) (385)		ေ	5 W 3	(A. 1997) 1989 3	6.0 04: 694	039 743	9	0000 505.	86 PT 90Z 300Z 30Z	S (30 80 / 07)	6 6 50 60 60 60 60	7 - 10 ( 2 d p.)	
INVENTORY OF CLEANSING VEHICLES AND PLANTS	No ELEET NO MEAR STATE PARKED PERIOD	COMPACTING Syears	RV 80 1984 RV 81 1984	3V 82	36 As	\$400 0 \$20 \$20 \$20 \$300 \$300 \$300 \$300 \$30	14(04 HATIO COMPACIONS	3C 25 1983	२ <b>८</b> 26		29 RG 30 1993 2years 24weeks	593 Cood	2. (2. (2. (2. (2. (2. (2. (2. (2. (2. (	State of the state	S.5 43777	3 S S S S S S S S S S S S S S S S S S S	D 626 1988	45 PH 681 1988 3years 27weeks			The second secon	
INVENTORY OF	No also the stable was 0.00 section	S 77 CAN S ACM COMPACTOR	† † °	2.700 (VV) (VV) (VV) (VV) (VV) (VV) (VV) (V	0, 845 (3) 988 (Peta)	18.19. Good	8 34 13 1 1939 Great			, 9%9, Cond	- 82	3vears 32weeks	588	:6 RV 25 : 1989 : 4years 44weeks	200 000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

<sup>12:</sup> not counted 6 never come out of the Workthat 30 yearship samman



#### **5.3.2** Year Round Trend of NCC Vehicle Operation



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VEHICLES

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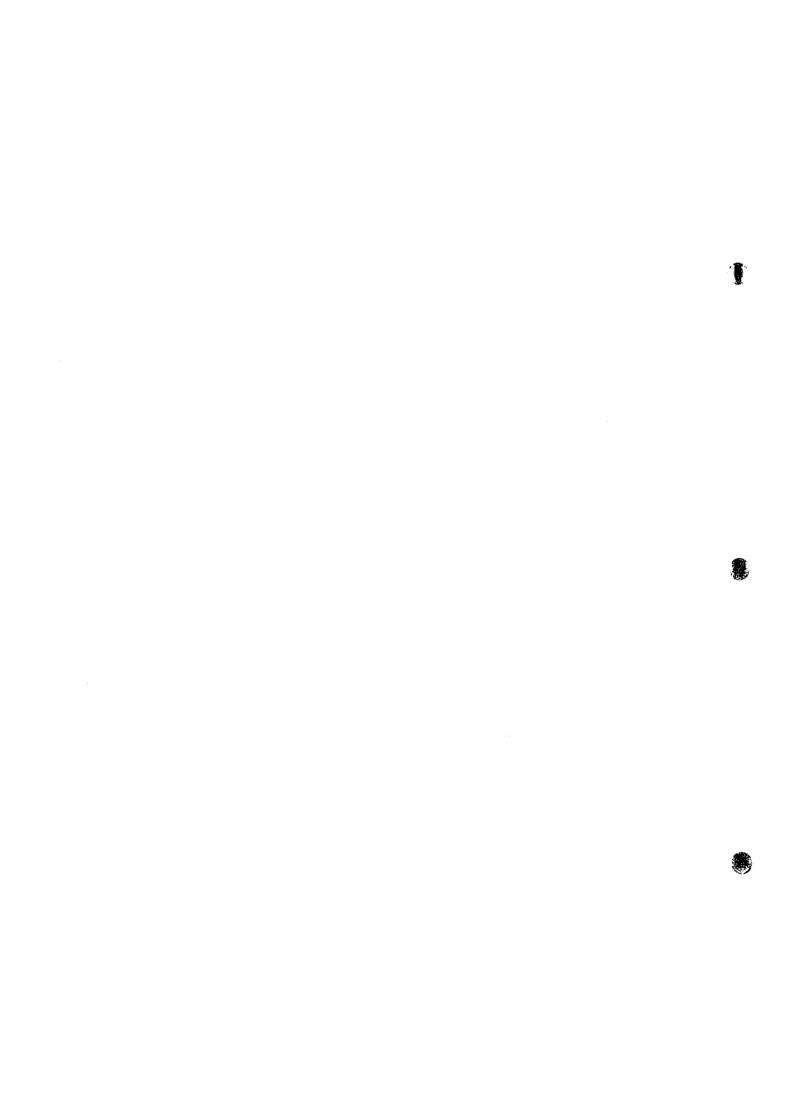
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ROUND

YEAR I

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0 X0X00X00 0 XOOOOXOO x x0000x00 x x0000x00 x x0000x00 oxo oxo xx000x00 xx000<u>x</u>00 OXO O 00000  $\times \times \times$ \*\*\* •\*\* •\*\* xx000x00 xx000x00 xx000x00 00000 00000 0 O, 0 08000 XX000000 00000 xxoooooo o × xx000000 0 00000 0 00X K00X00
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#### 5.3.3 NCC Vehicle Operation Records from May 1996 to May 1997



## LEGEND OF THE OPERATION RECORDS

## UNDER WORKSHOP

Eastern District Southern District Western District Embakasi District Parks

Supervision BC Services Dandora R/Tip Kaloleni

Central District Northern District

WORKING

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parked in depot	storing pipe	police	pressure pipe	pressure	propeller shaft	power take off	dwnd	release bearing	radiator	starter	speed cable	state duties	service	steering	half shaft	spring	sprocket	stud	transmission	transmission pipe	tyres	value compression	welding	water pump	wind screen	wsd: water & sewage department
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fb: fan belt	fuel	funeral	fp: fuel pump	fs: fuel system	ft: filter	gb: gear box	gc: gear shift cable	gl: gear lock	gr: gear	hp: hose pipe	hs: hydraulic seal	ij: injection	insurance	ip: injector pump	kp: king pin	li: light	mf: manifold	mr: major repair	non payment	nt: no tube	nu: nuts broken	oh: over heating	of: oil leaking	op: oil pipe		
c: accident	1: air lock	n: alternator	f: brake fluid	k: brake	r: body repair	t: battery	b: center bolt	k: caskets	1: clutch	n: chain	o: compression	to: compressor	th: chassis	er: carburetor	s: charging system	v: cylinder head	if: differential	dr: drum	electrical	engine	engine oil	expansi				
	accident fb: fan belt pd: parked in depor	accident fb: fan belt pd: parked in depor	accident fb: fan belt pd: parked in depot air lock fuel pi: storing pipe	accident fb: fan belt pd: parked in depot air lock fuel pi: storing pipe alternator funeral po: police brake fluid fp: fuel pump pp: pressure pipe	accident fb: fan belt pd: parked in depotation of the point of the poi	accident fb: fan belt pd: parked in depot air lock fuel point po: storing pipe alternator funeral po: police brake fluid fp: fuel pump pp: pressure brake fs: fuel system pr: pressure body repair ft: filter ps: propeller shaft	accident fb: fan belt pd: air lock alternator funeral po: brake fluid fp: fuel pump pp: brake battery gb: gear box pt:	accident fb: fan belt pd: parked in depot air lock alternator fuel pump pp: pressure pipe brake fluid fs: fuel system pr: pressure body repair ft: filter ps: propeller shaft battery ge: gear box pt: power take off	accident fb: fan belt pd: parked in depot air lock fuel poi po: 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repair ft: filter ps: propeller shaft pattery battery gc: gear shift cable pu: pump caskets gr: gear lock rd: radiator chain hp: hose pipe sa: starter compression hs: hydraulic seal sc: speed cable	accident fb: fan belt pd: parked in depot air lock alternator fuel funeral po: police brake fluid fs: fuel pump pp: pressure pipe pc pressure pipe ft: filter ps: propeller shaft pattery gc: gear box pt: power take off caskets gr: gear lock rd: radiator pp: pression hs: hydraulic seal sc: speed cable compressor ij: injection sai: state duties	accident fb: fan belt pd: parked in depot air lock alternator fuel pump po: police brake fluid fs: fuel system pr: pressure pipe private fy: fuel system pr: pressure pipe pri power take off pattery gc: gear shift cable pu: pump caskets gr: gear lock rd: radiator pr: posed cable compressor ij: injection sd: state duties chassis	accident fb: fan belt pd: parked in deport air lock alternator funeral po: police brake fluid for fuel pump pp: pressure pipe fs: 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# LEGEND OF THE OPERATION RECORDS

## UNDER WORKSHOP

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